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ATTORNEY DOCKET NO. FIRST NAMED INVENTOR FILING DATE APPLICATION NO.

09/511,737

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TM02/0807

William H Dippert Esq Cowan Liebowitz and Latman PC 1133 Avenue of the Americas New York NY 10036-6799

MAI.T PAPER NUMBER **ART UNIT** 2121 DATE MAILED:

EXAMINER

08/07/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

	Applicant(s)
	Application No. Applicant(s)
Office Action Summary	Examiner Group Art Unit
	Ma T 2121
—The MAILING DATE of this communication appe	ears on the cover sheet beneath the correspondence address—
Period for Reply	NONTHE PONTHE MAILING DATE
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET OF THIS COMMUNICATION.	TTO EXPIREMONTH(5) FROM THE MAILING DATE
from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a second for reply is specified above, such period shall, by defa	R 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS a reply within the statutory minimum of thirty (30) days will be considered timely. Butt, expire SIX (6) MONTHS from the mailing date of this communication. Statute, cause the application to become ABANDONED (35 U.S.C. § 133).
Status	-18-01
X)Responsive to communication(s) filed on	- (8 - 0)
☐ This action is FINAL.	
	ept for formal matters, prosecution as to the merits is closed in 1935 C.D. 1 1; 453 O.G. 213.
Disposition of Claims	
√ Claim(s)	is/are pending in the application.
	is/are withdrawn from consideration.
☐ Claim(s)	is/are allowed.
# ciam(c)—	is/are rejected.
□ Claim(s)	is/are objected to.
	are subject to restriction or election
☐ Claim(s)	requirement.
	requirement.
Application Papers ☐ See the attached Notice of Draftsperson's Patent Draft	requirement. wing Review, PTO-948.
Application Papers ☐ See the attached Notice of Draftsperson's Patent Draft ☐ The proposed drawing correction, filed on	wing Review, PTO-948 is approved disapproved.
Application Papers ☐ See the attached Notice of Draftsperson's Patent Drag	wing Review, PTO-948 is approved disapproved.
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Applicant's election with traverse of Group I in Paper No. 4 is acknowledged. The 1. traversal is on the ground(s) that "as stated by the examiner, the claims of Group I and II are classified in the same class and subclass. In addition, all the claims relate to timing issues of wave digital filters. In the claims of group I the timing issues are addressed by the term 'delaying the propagation of a value', while in group II the timing issues are related to as 'initial calculation of one or more output values of a first group of less than all the adapters of the filter, responsive to the provided clock signal" (emphasis added). This is not found persuasive because Group I (Claims 1-32) is directed to a wave digital filter having "memoryless adapters" and "delaying the propagation of a value." The "delaying the propagation of a value into at least one input of at least one of adapters" means the adapters are cascaded. Group II (Claims 33-40) is directed to a wave digital filter having "initial calculation of one or more output values of a first group of less than all the adapters of the filter, responsive to the provided clock signal" which means the adapters are parallel. Therefore, they are disclosed as different combinations which are not connected in design, operation or effect from each other, and thus are clearly directed to different and independent inventions.

The requirement is still deemed proper and is therefore made FINAL.

- 2. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.
- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-32 are rejected under 35 U.S.C. 103(a) as being unpatentable over either Fettweis (Applicant's admission Prior Art) or Schwartz in view of Nicol.

Fettweis (e.g., see Fig. 1 and Tables 6, 8 &10) and Schwartz (e.g., see Figs. 1a-1c, 2, 4, 6 & 8) disclose all the claimed invention except the "at least one controlled gate which dalays the propagation of value into at least one input of at least one of the adapters"; however, the feature is old and well known in the arrt. For example, Nicol discloses, e.g., see Fig. 2, a circuit having controlled gates which delay the propagation of signals to other elements for reducing power consumption. It would have been obvious to a person having ordinary skill in the art at the time the invention was made to combine Nicol feature in either Fettweis or Schwartz, thereby making the claimed invention, because the proposed device is a wave digital filter having controlled gates which delay the propagation of signals to other elements as claimed.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tan V. Mai whose telephone number is (703) 305-9761. The examiner can normally be reached on Tue-Fri from 6:30am to 5:00pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William A. Grant, can be reached on (703) 308-1108. The fax phone number for the organization where this application or proceeding is assigned is (703) 306-5404.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3800.

TM

TAN V. MAI PRIMARY EXAMINER